



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Christopher C. Cummins et al.

Application No: 10/666,565

Filed: September 19, 2003


For: *Formation of Enediynes by Reductive
Coupling Followed by Alkyne
Metathesis*

Art Unit: 1764

Attorney Document No. MTV-054.01

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, "Post Office to Addressee", in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on February 5, 2004.


Shirine Darvish

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants and/or their attorney in compliance with the requirements of 37 CFR 1.56. Copies of the documents are also being submitted.

This submission does not represent that a search has been made or that no better art exists. Nor does it constitute an admission that the cited documents are material or constitute "prior art." If the Examiner applies the listed documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such documents. Applicant further reserves the right to take

appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the referenced documents be applied against the claims of the present application.

Under 37 C.F.R. § 1.97 (b)(3), this Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits; therefore, no fee is believed to be due in connection with this submission. However, the Commissioner is authorized to charge any deficiencies or credit any overpayment to/from our **Deposit Account, No. 06-1448, Reference MTV-054.01.**

Date: February 5, 2004

Customer No.: 25181
Patent Group
Foley Hoag LLP
SEAPORT WORLD TRADE CENTER WEST
155 Seaport Boulevard
Boston, MA 02210
617-832-1000
617-832-7000 (FAX)

Respectfully Submitted,



Dana M. Gordon, Ph.D.
Reg. No.: 44,719
Attorney for Applicant

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) MTV-054.01	Application Number 10/666,565
	Applicant Cummins, et al.	
	Filing Date September 19, 2003	Group Art Unit 1764

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	US 2002/0072632 A1	06/13/02	Guram et al.	564	15	02/01/02
AB	US 2002/0034829 A1	03/21/02	Hall et al.	436	518	03/26/01
AC	US 6,391,916 B1	05/21/02	Dai et al	514	529	07/21/00
AD	5,436,361	07/25/95	Jones et al.	556	466	04/22/94
AE	US 2002/0058812 A1	05/16/02	Grubbs et al.	546	2	09/05/01
AF	US 6,175,047 B1	01/16/01	Hori et al.	585	645	12/23/98

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
AG	WO 99/40047	08/12/99	Germany	C07B	37/10	X	
AH	EP 1 022 282 A2	01/22/99	Europe	C07F	15/00	X	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

AI	Yi-Chou Tsai, et al., "Facile Synthesis of Trialkoxymolybdenum (VI) Alkylidyne Complexes for Alkyne Metathesis," <u>Organometallics</u> 2000, Volume 19, pages 5260-5262, (July 27, 2000).
AJ	Philippus F. Engel, et al., "Carbon-Carbon and Carbon-Heteroatom Coupling Reactions of Metallacarbynes," <u>Chemical Rev.</u> 1995, 95, pages 2281 - 2309, (January 27, 1994).
AK	Karin Weiss, et al., "Acyclic Diyne Metathesis (ADIMET), an Efficient Route to Poly(phenylene)ethynylenes (PPEs) and Nonconjugated Polyalkynylenes of High Molecular Weight," <u>Angew. Chem. Int. Ed. Engl.</u> 36, No. 5, pages 506-509, (1997).
AL	Andreas Mayr et al., "Electronic Communications between Metal Centers Across Unsaturated Alkylidyne Ligands," <u>J. Am. Chem. Soc.</u> , 1999, 121, pgs. 1760 - 1761, (February, 1999).
EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449		Docket Number (Optional) MTV-054.01	Application Number 10/666,565
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Applicant Cummins, et al.	
		Filing Date September 10, 2003	Group Art Unit 1764
OTHER DOCUMENTS			
AM	Richard R. Schrock, "High Oxidation State Multiple Metal-Carbon Bonds," <u>Chem. Rev.</u> 2002 , <u>102</u> , pgs. 145 - 179, (2002).		
AN	Marie Pui Yin Yu, et al., "4-Iodobenzylidene as a Precursor Ligand for Extended Unsaturated Alkylidyne Ligands," <u>J. Chem. Soc., Dalton Trans.</u> , pgs. 2373 - 2378 (1988).		
AO	Graeme Hogarth, et al., "Linking Metal Centres with Diimido Ligands: Synthesis, Electronic and Molecular Structure and Electrochemistry of Organometallic Ditungsten Complexes," <u>J. Chem. Soc., Dalton Trans.</u> , pgs. 2705 - 2723 (1999).		
AP	Andres Mayr, et al., "Recent Advances in the Chemistry of Metal-Carbon Triple Bonds," <u>Advances in Organometallic Chemistry</u> , Volume 32 , pgs. 227 - 324, (1991).		
AQ	Frederic Paul, et al., "Organometallic Molecular Wires and Other Nanoscale-Sized Devices. An Approach Using the Organoiron (dppe)Cp*Fe Building Block", pgs. 431 - 509, , <u>Elsevier Science S.A.</u> , 178-180, (1998).		
AR	James M. Blackwell, et al., "Enedynes via Sequential Acetylide Reductive Coupling and Alkyne Metathesis: Easy Access to Well-Defined Molybdenum Initiators for Alkyne Metathesis," <u>Organometallics</u> 2003 , <u>22</u> , pgs. 3351 - 3353 (2003).		
AS	David S. Frohnapfel, et al., "Variable Electronic Coupling Through Hydrocarbon Spacers Bridging-Carbon Triple" <u>J. Phys. Chem A</u> 1998 , <u>102</u> , pgs. 5665 - 5669, (1998).		
AT	Keng-Yu Shih, et al., "Synthesis of Molybdenum Complexes that Contain Silylated Triamidoamine Ligands. A μ -Dinitrogen Complex, Methyl and Acetylide Complexes, and Coupling of Acetylides," <u>J. Am. Chem. Soc.</u> 1994 , <u>116</u> , pgs. 8804 - 8805, (1994).		
AU	Steven A. Krouse, et al. "The Synthesis of <i>trans</i> -(Me ₃ CO) ₃ W \equiv CCH \equiv CHC \equiv W (OCMe ₃) ₃ , <i>cis,cis</i> -(Me ₃ CO) ₃ W \equiv CCH \equiv CHC \equiv CCH \equiv CHC \equiv W (OCMe ₃) ₃ ," <u>Journal of Organometallic Chemistry</u> , 355 , pgs. 257 - 265, (1988).		
AV	B. E. Woodworth, et al.. "Stepwise Synthesis of (\equiv CCH ₂ CH ₂ C \equiv), (\equiv CCH \equiv CHC \equiv), and (\equiv CC \equiv CC \equiv) Bridges between Molybdenum or Tungsten Centers," <u>J. Am. Chem. Soc.</u> 1997 , <u>119</u> , pgs. 828 - 829, (1996).		
AW	Hai Ping Xia, et al. "Synthesis of Symmetrical C ₅ H ₅ -Bridged Dimeric Ruthenium Complexes," <u>Organometallics</u> 1997 , <u>16</u> , pgs. 3557 - 3560, (1997).		
EXAMINER	DATE CONSIDERED		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			